

Spend Three Opportunity-Filled Days
With Leading Professionals In The
Composting & Organics Recycling Industry

COMPOSTING, ORGANICS RECYCLING & RENEWABLE ENERGY

Where Principles And Profits Join Forces

March 7, 8, 9, 2005
San Francisco, California
Cathedral Hill Hotel

Session Highlights

- Practical, profitable steps to meet recycling goals
- Strategies for commercial, residential food residuals diversion
- Learning how to grow the composting industry
- Operating organics processing facilities under tight air quality restrictions
- Latest trends in anaerobic digestion to manage manure, food residuals
- How "green power" generators profit in Renewable Energy Certificate marketplace
- Odor management tools that build confidence
- Using compost to reduce water use on West Coast farms and vineyards

Cosponsored by:

California Integrated Waste Management Board
California Energy Commission
Sacramento Municipal Utility District
USDA — Natural Resources Conservation Service
U.S. Environmental Protection Agency — Region 9

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BioCycle WEST COAST CONFERENCE

2005

50 TECHNICAL SESSIONS • FIELD TRIPS • EXHIBITS

PROGRAM

**MONDAY
MARCH 7, 2005**

MORNING 9:00 AM — 12:30PM

Plenary Session

MODELS TO MAXIMIZE DIVERSION

CALIFORNIA'S RECYCLING REPORT CARD

Progress in only state in U.S. with mandatory recycling goal; Overview of infrastructure; Role of organics, energy recovery to maintain, surpass 50% rate.

Judith Friedman, California Integrated Waste Management Board

UTILITY DISTRICT FORGES AHEAD IN BIOMASS UTILIZATION

From green waste to manure digestion; How regional utility plays major role in utilizing organics from solid waste stream; Case studies of projects.

Michael DeAngelis, Sacramento (CA) Municipal Utility District

CAN COLLABORATIVE RESEARCH IMPROVE PUBLIC RELATIONSHIPS?

Involving diverse stakeholders in research to study public health impacts of residuals recycling practices; Tools to help achieve credible and legitimate outcomes; Update on research committee formed as part of a biosolids land application ordinance.

Marci Coglianese, Mayor, Rio Vista (CA) (Retired)

EUROPEAN STRATEGY — ORGANICS KEY TO HIGH DIVERSION RATES

Potential for achieving 60 to 70 percent diversion by targeting biodegradable MSW; Assessing impacts of European Landfill Directive to meet goals; Blending mandatory and voluntary programs for effective resource management.

Kit Strange, Resource Recovery Forum, UK

Concurrent Session A

KEY COMPOSTING, ORGANICS RECYCLING TRENDS, 2005 – 2010

PRACTICAL, PROFITABLE STEPS TO MEET GOALS

From advances in Europe on biological treatment to C&D processing and source separation; Ordinances, technologies, composting methods to achieve goals.

Luis Diaz and **Linda Eggerth**, CalRecovery, Inc.

INCREASING RESIDUALS RECOVERY AT THE MUNICIPAL LEVEL

With three-stream service for 150,000 households and a thriving commercial organics recycling program, what lessons has San Francisco learned; Assessing program economics and rate structure; Evaluating collection of office paper and food scraps.

Jack Macy, City and County of San Francisco Recycling Program

IDENTIFYING DRIVERS THAT MAXIMIZE INDUSTRY GROWTH

Why a regional solid waste management company has targeted food scraps management as a significant contributor to its revenue stream; Role of public sector incentives to encourage private sector investments; Evaluating conversion technologies.

Robert Reed and **Chris Choate**, Norcal Waste Systems, Inc.

Visit www.biocycle.net to register and for conference details and updates ... or call 610-967-4135

Concurrent Session B

KEY RENEWABLE ENERGY TRENDS, 2005 – 2010

DEVELOPING BIOGAS RENEWABLE ENERGY IN CALIFORNIA

Overview of Public Interest Energy Research program and its impact on biogas power from dairy manure, municipal sludges and food processing wastewater; Assessment of biogas production infrastructure in California and utility demand for energy produced.

George Simons, California Energy Commission

EMERGING OPPORTUNITIES FOR ENERGY GENERATION

Assessing available feedstocks; Fuel uses and markets; Process alternatives — anaerobic digestion, gasification, fuel cells ... and more; Key issues in decision-making process; National security perspectives.

George Savage, CalRecovery, Inc.

CONVERSION TECHNOLOGIES AS SOLID WASTE MANAGEMENT STRATEGY

How conversion systems fit into integrated waste management hierarchy; Role of regulations and public policy to stimulate project development and private sector investment.

Fernando Berton, California Integrated Waste Management Board

AFTERNOON 1:45 PM — 6:00 PM

Concurrent Session A

BRINGING COHESION TO THE CALIFORNIA COMPOSTING INDUSTRY

WHAT AND WHO ARE THE CALIFORNIA COMPOSTING INDUSTRY

Historical overview, through the present day, of California's composting industry; Using data from statewide survey to illustrate trends; Highlights of "crises" that have brought the industry together, and current issues that continue to drive it apart.

Matthew Cotton, Integrated Waste Management Consulting

CONTRACTING FOR COMPOSTING SERVICES — GENERATORS' PERSPECTIVES

How municipal utilities responsible for managing hundreds of thousands of tons/year of highly compostable organic residuals view the California composting industry and its capability for fulfilling its processing demands; Exploring potential of public/private partnerships.

Michael Moore, Orange County (CA) Sanitation Dist.

Doug Walters, City of Los Angeles Department of Public Works

Michele Young, City of San Jose (CA) Environmental Services Department

TIPS FOR SUSTAINABLE COHESION AND PROFITS

How to capitalize on common purposes to grow the industry (Hint: Composter A vs. Composter B does not sustain an industry niche but Composter A plus Composter B grows markets and profits).

Dan Noble, Association of Compost Producers

BUILDING HIGH VALUE COMPOST MARKETS

WHICH MARKETS HOLD THE HIGHEST PROFIT POTENTIAL?

Pricing high quality compost according to its end use values; Factoring in compost's attributes that yield water savings, disease suppression and more productive soils in urban, suburban and agricultural regions.

Rod Tyler, Green Horizons/Filtrex International

WATER EFFICIENT LANDSCAPE SOLUTIONS

Public/private collaboration in southern California that makes water efficient landscapes using compost a reality; Building bridges between water utilities, composters, construction and maintenance companies, landscape architects, nurseries.

John Gundlach, Inland Empire Utilities Authority

CREATING COMPOST BRANDS

Soil products company living proof that value and performance trumps feedstock phobias; Consumer and retailer education about compost; Including element of fun in product promotions.

Kathy Kellogg Johnson, Kellogg Supply

Concurrent Session B

MAXIMIZING POTENTIAL OF ANAEROBIC DIGESTION IN CITIES AND ON FARMS

TRENDS IN ANAEROBIC DIGESTION ON THE WEST COAST

Evaluating performance, energy output, economics; Technology advances and operating experiences; Trends and review of operating facilities.

Mark Moser, RCM Digesters, Inc.

ADVANCING ANAEROBIC DIGESTION IN LOS ANGELES

Revising the system for optimum results; Pros and cons with using thermophilic temperature regime; Achieving Class A biosolids after digestion phase; Next steps.

R. Tim Haug, City of Los Angeles Environmental Engineering Division

WHAT THE FUTURE LOOKS LIKE IN FARM-SCALE DIGESTION

Case studies of anaerobic digesters designed for dairy operations in California; Systems being used; Assessing performance and economics; Lessons learned.

Douglas Williams, Williams Engineering Associates

MANAGING RESIDUALS AT A FIG PROCESSING SITE

Why a Fresno, California company chose to solve its waste management problems with a digester; Economics of generating and using power on site.

Michael Emigh, Valley Fig Growers

THE PRESENT — AND FUTURE — FOR MANURE MANAGEMENT

SOLVING MANURE CHALLENGES BY PARTNERING, COMPOSTING AND POWER GENERATION

What to do with 800,000 tons of dried manure generated annually; Master plan to create partnerships with other industries; Setting up five composting projects to minimize air pollution, improve soil and water quality.

Bob Feenstra, Milk Producers Council

IMPROVING MANAGEMENT AND TREATMENT OF DAIRY MANURE

Evaluating technologies to process high volumes of manure in the San Joaquin Valley while protecting human health/natural resources from excessive emissions of ammonia, VOCs, methane, odors, N and salts; Collaboration among organizations.

James Liebman, US EPA Region 9

MANAGING AND APPLYING MANURE COMPOST ON WEST COAST FARMS

Overview of materials handling methods, mixing and applying feedstocks; Application rate and yields; Quantifying impact on irrigation cycles; Economics in field and marketplace.

RECEPTION

Tours of recycling, composting systems at conference hotel and nearby restaurant to be offered Monday and Tuesday.
(Details will be available at BioCycle registration desk.)

TUESDAY MARCH 8, 2005

MORNING 8:30 AM — 12:15 PM

Concurrent Session A

MANAGING, REGULATING AIR, ODOR EMISSIONS

HOW TO MAKE FRIENDS WITH YOUR LOCAL AIR DISTRICT

Methods that composters can use to best manage odor impacts; Dealing with air quality board requirements; Translating BMPs to operators and regulators.

Jan Allen, CH2M Hill

MANAGEMENT OPTIONS TO COMPLY WITH EMISSIONS STANDARDS

What works, what doesn't based on design, permitting and operational experiences at composting sites on the West Coast; Implementing results.

Charles Egigian Nichols and Todd Williams, TetraTech

PREPARING THE PUBLIC FOR ODORS — AN EMS FRAMEWORK

How tools in an Environmental Management System help identify the odor impact points of an organics recycling operation; Building relationships, open communications with stakeholders at points of impact.

Michael Moore, Orange County (CA) Sanitation Dist.

WHAT TO LOOK FOR IN NEW REGULATIONS ON AIR QUALITY

Update on air quality management districts' rule implementation; Interim findings of CIWMB-funded research on developing Best Management Practices for VOCs and ammonia emissions; Applying findings to compost operations and facility siting.

Brenda Smyth, California Integrated Waste Management Board

SOLID WASTE COMPOSTING — WHAT ARE WE LEARNING?

FACTORS FOR FACILITY LONGEVITY

Working the technology to take this small facility where it needed to go to manage mixed MSW and biosolids; Analysis of operating costs, odor control, and maintaining quality to maintain markets.

Phil Hayes and Jeffrey Hodge, Pinetop-Lakeside (AZ) Sanitary District

MIXED WASTE COMPOSTING IN YELLOWSTONE NATIONAL PARK

Processing 40 tons/day of MSW where climate, amendment availability and even bears add to project's complexity; Lessons learned during first two seasons of operation; How project could serve as model.

Kathy O'Hern, West Yellowstone (MT) Compost Facility

PROS, CONS OF ADDING FOOD RESIDUALS TO A YARD TRIMMINGS PROGRAM

What to consider when adding household organics to curbside yard trimmings collection; Challenges of program expansion to collection frequencies, containers, permits and limitations of composting facilities; Analysis of benefits, tradeoffs.

Steven Sherman, Applied Compost Consulting, Inc.

Concurrent Session B

BREAKTHROUGHS IN COMPOST, COMPOST TEA UTILIZATION

ANALYTICAL METHODS TO ACHIEVE "IDEAL COMPOST QUALITY"

What is "ideal compost quality," microbiologically speaking? Impacts from proper product "finishing" steps; Evaluating effects supplements have on the desired microbial community.

Brantlee Richter, BBC Laboratories

COMPOST ROLE IN ORGANIC FARMING

Regulatory status; What organic growers want in compost applications; Review of research projects at land grant institutions.

Jane Sooby, Organic Farming Research Foundation

QUALITY COMPOST, QUALITY SOILS

Lab data, field trials and full-scale compost utilization on farms all confirm the role that quality compost plays in building quality soils; Review of critical compost parameters and experiences.

Will Brinton, Woods End Research Laboratory

COMPOST TEA USE IN VINEYARD

Napa Valley winery incorporates compost tea into its vineyard program; Quality control in tea production; Application methods.

Kirk Grace, Robert Sinskey Vineyards

COMMERCIAL ORGANICS RECYCLING: PART I

BRINGING A SUPERMARKET CHAIN ON-LINE

Rolling out food scraps and soiled paper diversion programs at stores nationwide; Separation, collection systems for about 8 tons/week/store of organics; Marketing bagged compost brings program full-circle.

Tom Wright, Whole Foods

TRAINING AND COLLECTION LOGISTICS

Nuts and bolts (and challenges) of starting and maintaining a commercial organics collection program; Applying lessons learned to more complex venues.

Christian Levaggi, Golden Gate Disposal

SURPASSING 50% MARK AT SBC PARK

Launching an effective recycling and organics diversion program at San Francisco stadium; Evaluating biodegradable plastic service ware and cups.

Christopher Williams, Applied Compost Consulting

AFTERNOON 1:45 PM — 5:30 PM

Concurrent Session A

COMMERCIAL ORGANICS RECYCLING: PART II

ROLLING OUT A REGIONAL PROGRAM

Negotiating with, selecting, service provider for collection, transport and processing of source separated commercial organics; Mutually beneficial contract incentives.

Jennifer Erickson, Metro (Portland, OR)

COMPOSTING SERVICE "PACKAGE"

Building revenue sharing into municipal contract; Commitment to build composting facility locally when quantity of organics diverted reaches 10,000 tons/year on an ongoing basis.

Denise Foland, Cedar Grove Composting, Inc.

BUILDING BIG ORDERS FOR BIODEGRADABLES

How to reach critical mass in purchasing biodegradable cups, food service ware and bags; What volumes will tip the scale toward more favorable pricing.

Panel Discussion

Concurrent Session B

MAXIMIZING BIOMASS POTENTIAL FOR RENEWABLE ENERGY

USDA BIOMASS R&D INITIATIVE

Availability of \$15 million in grants to demonstrate biobased products, bioenergy, biopower and related processes; Review of current projects.

Richard Swenson, NRCS

STRATEGY FOR USING BIOMASS IN ENERGY GENERATION

From dairy manure digesters, green waste conversion and accelerated anaerobic digestion bioreactors at landfill, utility analyzes performance.

Ruth MacDougall, Sacramento Mun. Utility District

PROFITABLE OPTIONS IN REACHING MARKETS FOR TREATED DIGESTATE

New value-added markets for recycled bedding from digesters; Solids separation methods; Improvements in manure management and health of animals.

Steve Dvorak, GHD, Inc.

STATEWIDE APPROACH TO BIOMASS WASTE SOLUTIONS

Policies/commercial development for biobased industries in California; Role of biomass wastes in meeting the State's renewable energy, clean fuels, pollution prevention, and economic development goals.

Kay Martin, BioEnergy Products Association

Plenary Session

STRAIGHT TALK ON DIVERSION INCENTIVES

AS LONG AS THERE ARE CHEAP LANDFILLS, CHEAP ENERGY...

What will drive diversion when publicly-held waste companies are locked into landfill disposal revenues; Thriving as creators and restorers of natural resources.

Nora Goldstein, BioCycle

LEARNING FROM EUROPEAN EXPERIENCES

Comparing and contrasting waste management trends and realities to assess applicability of EU diversion policies to U.S. federal and state agencies.

Kit Strange, Resource Recovery Forum, UK

DIVERSION INCENTIVES

Municipal agencies evaluate success of incentives such as construction and demolition debris deposit programs, lower fees for source separated organics.

Panel Discussion

EVENING 7:30 PM — 9:30 PM

Special Session

BUILDING PARTNERSHIPS FOR BIOMASS — RENEWABLE ENERGY CONNECTIONS

Policy-makers, private sector, biomass generators, utilities and researchers discuss ways to accelerate progress in achieving energy goals; Developing strategies that overcome obstacles.

Panel: Representatives of agencies including California Energy Commission, Sacramento Municipal Utility District, California Integrated Waste Management Board, Biomass Collaborative

WEDNESDAY MARCH 9, 2005

ALL DAY 8:00 AM — 4:30 PM

ATTENDEE SPECIAL OPTIONS

Option 1: FIELD TRIPS

Regional composting facility processing over 100,000 tons/year of yard trimmings and residential and commercial organics in enclosed aerated static piles followed by curing in open windrows; Screening, grinding and composting equipment demonstrations; Compost, compost tea production at San Francisco golf course and park. Visit www.biocycle.net for field trip updates.

Option 2: TRAINING WORKSHOP — URBAN, SUBURBAN STORM WATER MANAGEMENT USING COMPOST-BASED BMPs

Full-day training for compost manufacturers and marketers, storm water managers; Review of tools including filtration socks, compost blankets, filter berms, green roofs, vegetative filter strips; Experiments to test on-spec compost/mulch blends, sediment retention, flow through rates.



About BioCycle, Journal Of Composting & Organics Recycling

Published since 1960, BioCycle is America's foremost magazine on using organic residuals to maximum advantage — from improving the health of soils and crops to producing renewable energy in the form of methane and alcohol fuels. Every monthly issue shows readers how to change wastes and wastewater into marketable end products.

With BioCycle as your monthly guide, you'll follow the sustainable connections as they relate to agriculture, municipalities and industry. You'll keep abreast of latest public policies and research findings which are critical to project development and management. You'll also discover markets in different sectors facing pressures to protect natural resources.

Subscribe to BioCycle today. Mail the subscription card attached, or visit www.biocycle.net to subscribe online. For faster service, call 610.967.4135, ext. 21.

Cathedral Hill Hotel

1101 Van Ness Ave. at Geary Blvd.

Special BioCycle Conference rate
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\$109 single/double per night

For hotel reservations:
(800) 622-0855 or (415) 776-8200

Cathedral Hill Hotel — the BioCycle West Coast Conference 2005 headquarters hotel — is close to shops and restaurants in Union Square, Pacific Heights and Nob Hill neighborhoods. World famous Chinatown is just blocks away and Fisherman's Wharf can be accessed by cable car. Civic Center and theatres are nearby.

PROGRAM SUMMARY

MONDAY, MARCH 7, 2005

MORNING — Plenary Session

MODELS TO MAXIMIZE DIVERSION

California's Recycling Report Card
Utility District Forges Ahead In Biomass Utilization
Can Collaborative Research
Improve Public Relationships?
European Strategy — Organics Key To
High Diversion Rates

Concurrent Session A

KEY COMPOSTING, ORGANICS RECYCLING TRENDS, 2005 – 2010

Practical, Profitable Steps To Meet Goals
Increasing Residuals Recovery At The Municipal Level
Identifying Drivers That Maximize Industry Growth

Concurrent Session B

KEY RENEWABLE ENERGY TRENDS, 2005 – 2010

Developing Biogas Renewable Energy In California
Emerging Opportunities For Energy Generation
Conversion Technologies As Solid Waste
Management Strategy

AFTERNOON — Concurrent Session A

BRINGING COHESION TO THE CALIFORNIA COMPOSTING INDUSTRY

What And Who Are The California
Composting Industry
Contracting For Composting Services —
Generators' Perspectives
Tips For Sustainable Cohesion And Profits

BUILDING HIGH VALUE COMPOST MARKETS

Which Markets Hold The Highest Profit Potential?
Water Efficient Landscape Solutions
Creating Compost Brands

Concurrent Session B

MAXIMIZING POTENTIAL OF ANAEROBIC DIGESTION IN CITIES AND ON FARMS

Trends In Anaerobic Digestion On The West Coast
Advancing Anaerobic Digestion In Los Angeles
What The Future Looks Like In Farm-Scale Digestion
Managing Residuals At A Fig Processing Site

THE PRESENT — AND FUTURE — FOR MANURE MANAGEMENT

Solving Manure Challenges By Partnering, Composting
And Power Generation
Improving Management, Treatment Of Dairy Manure
Managing And Applying Manure Compost
On West Coast Farms

RECEPTION

TUESDAY, March 8, 2005

MORNING — Concurrent Session A

MANAGING, REGULATING AIR, ODOR EMISSIONS

How To Make Friends With Your Local Air District
Management Options To Comply
With Emissions Standards
Preparing The Public For Odors — An EMS Framework
What To Look For In New Regulations On Air Quality

SOLID WASTE COMPOSTING — WHAT ARE WE LEARNING?

Factors For Facility Longevity
Mixed Waste Composting In Yellowstone National Park
Pros, Cons Of Adding Food Residuals
To A Yard Trimmings Program

Concurrent Session B

BREAKTHROUGHS IN COMPOST, COMPOST TEA UTILIZATION

Analytical Methods To Achieve "Ideal Compost Quality"
Compost Role In Organic Farming
Quality Compost, Quality Soils
Compost Tea Use In Vineyard

COMMERCIAL ORGANICS RECYCLING: PART I

Bringing A Supermarket Chain On-Line
Training And Collection Logistics
Surpassing 50% Mark At SBC Park

AFTERNOON — Concurrent Session A

COMMERCIAL ORGANICS RECYCLING: PART II

Rolling Out A Regional Program
Composting Service "Package"
Building Big Orders For Biodegradables

Concurrent Session B

MAXIMIZING BIOMASS POTENTIAL FOR RENEWABLE ENERGY

USDA Biomass R&D Initiative
Strategy for Using Biomass In Energy Generation
Profitable Options In Reaching Markets
For Treated Digestate
Statewide Approach To Biomass Waste Solutions

Plenary Session

STRAIGHT TALK ON DIVERSION INCENTIVES

As Long As There Are Cheap Landfills, Cheap Energy...
Learning From European Experiences
Diversion Incentives

EVENING 7:30 — 9:30 PM

Special Session

Building Partnerships For Biomass —
Renewable Energy Connections

WEDNESDAY, MARCH 9, 2005

ALL DAY — ATTENDEE SPECIAL OPTIONS

Option 1: FIELD TRIPS

Option 2: TRAINING WORKSHOP

Urban, Suburban Storm Water Management Using Compost-Based BMPs

BioCYCLE

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BioCycle Conference rate of \$109 single/double per night.

BCWC05

☐ **YES**, register me (us) for **BIOCYCLE WEST COAST CONFERENCE 2005**.

The registration fee of \$395 per person includes attendance at all conference sessions to be held at the Cathedral Hill Hotel on March 7 and 8, and the all-day Site Tours (Option 1) or all-day Workshop (Option 2) on March 9 (**check your choice below**).

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